

## Detailed data for trionizing

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Bob

As requested by NCEA, attached is a file provided by UC that gives IH data for trionizing department stratified by job and year. I added some graphs and a summary table to what UC sent. The text that UC supplied is attached below the graphs I prepared, and is also presented below.

The trionizing department included several jobs, all of which involved raw or expanded vermiculite. The track job was outdoors and was handled apart from the remaining indoor jobs, which included feeder, expander, dryer (1 & 2), mill, blender, resin, and clean-up. Trionizing employees rotated through the nine jobs, spending an equal amount of time in each. There are few industrial hygiene samples available in the 1972-1976 time period for the indoor jobs, distributed as follows: expander (n=147), cleanup (16), feeder (10), dryer (2), mill (1), blender (0), resin (0). A larger number of samples are available for all jobs post-1976; these values are noticeably lower than the available 1972-1976 values and similar across all the indoor jobs. The issue was how to estimate exposures for the 1972-1976 time frame for the jobs with few or no samples. As the jobs with a larger number of samples (expander, feeder, cleanup) had similar values and followed a similar distribution (higher values where available 1972-1976 and declining thereafter), this pattern was probable for the jobs lacking data for the early years. Therefore, the samples for the various indoor trionizing jobs were combined and the resulting yearly means comprised 89% of the overall trionizing exposure estimate, with track providing the remaining 11%.

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